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APR 26 2004

OFFICE OF PETITIONS

Examiner: Mayekar, Koshor

\* \* \* \* \*

April 22, 2004

## **RENEWED PETITION TO REVIVE UNINTENTIONALLY ABANDONED APPLICATION**

On information on belief this application was been forwarded from Technology Center 1700 to the Office of Petitions and repeated telephone calls have not been effective to obtain transfer of the application to the Office of Petitions for a Decision on the Petition to Revive. Accordingly, the undersigned hereby renews the Petition to Revive Unintentionally Abandoned Application, first filed June 2, 2003, pursuant to the Decision of January 30, 2003, and requests that the Office of Petitions now consider the undersigned's alternative Petition to Revive Unintentionally Abandoned Application and reinstate this application

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Serial No. 09/695,043  
April 22, 2004

forthwith. In the event the required fees to revive this application have not previously been charged to the undersigned's account in connection with the original petition, authorization is hereby given to charge the required revival fees to our Deposit Account No. 14-1140 under Order No. 9901-14 for this case.

An early and favorable Decision on the Petition to Revive is respectfully requested.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By:   
Michelle N. Lester  
Reg. No. 32,331

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APR 26 2004

OFFICE OF PETITIONS  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

NAKAMURA

Atty. Ref.: 1767-72

Serial No. 09/695,043

Group: 1741

Filed: October 25, 2000

Examiner: Mayekar, Koshor

For: DECOMPOSITION APPARATUS OF ORGANIC COMPOUND,  
DECOMPOSITION METHOD THEREOF, EXCIMER UV LAMP AND EXCIMER  
EMISSION APPARATUS

\* \* \* \* \*

June 3, 2003

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**WITHDRAWAL OF ERRONEOUS ABANDONMENT NOTICE OR IN THE ALTERNATIVE  
PETITION TO REVIVE**

It is understood that the subject application has been abandoned because applicant allegedly failed to file a response to the Office Action mailed November 15, 2002.

Withdrawal of the Abandonment of this application is respectfully requested.

This application was filed on October 25, 2000 as a division of parent Application No. 09/132,215, filed August 11, 1998. On November 15, 2002, a Restriction Requirement was issued in connection with this case. On December 10, 2002, a Response to the Examiner's Restriction Requirement was filed. It has been discovered that due to an internal clerical/computer error, the header to that Amendment and Response to Restriction Requirement inadvertently referenced the parent application rather than the serial number and filing date of the subject divisional application. Nevertheless, the header properly identified the Attorney Docket Number for this case (1767-72), the title, and specifically referenced the Office Action dated November 15, 2002. A copy of that Amendment and Response to Restriction Requirement and the undersigned's postcard receipt evidencing its receipt by the U.S. Patent Office on December 10, 2002 are attached.

Although the Response properly identified the Attorney Reference Number, title, and Office Action in response to which the Amendment and Response was being submitted, the December 10, 2002 Response was apparently never matched with the subject application. It

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is unclear whether the paper was placed in the file of the parent application or mis-routed within the U.S. Patent Office.

Because an Amendment and Response to Restriction Requirement was timely filed on December 10, 2002, and properly identified this case by Attorney Docket Number and Title, and referenced the Official Action of November 15, 2002, it is respectfully submitted that applicant should be accorded a response date of December 10, 2002 and this application should not have been abandoned for failing to respond to the Office Action of November 15, 2002.

In the alternative, if the December 10, 2002 submission is considered fatally defective for showing the parent serial number instead of the serial number of the present divisional application, please consider this a Petition to Revive an Unintentionally Abandoned Application and please accept the herewith re-presented Amendment and Response to Restriction Requirement, which has been re-headed to specifically identify this divisional application by serial number, as the required response. Please charge any required fees for withdrawal of the abandonment and/or revival of this application to the undersigned's Deposit Account number 14-1140 under Order No. 1767-72 for which purposes this petition is submitted in duplicate.

If there are any questions regarding this request/petition, please contact the undersigned at the number indicated below.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By:   
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APR 26 2004

OFFICE OF PETITIONS

Serial No.: 09/695,043

C#/M#: 1767-72

Inventor/s: NAKAMURA

Atty: Michele N. Lester

Date: Jun. 3, 03

Title: DECOMPOSITION APPARATUS OF ORGANIC  
COMPOUND, DECOMPOSITION METHOD THEREOF,  
EXCIMER UV LAMP AND EXCIMER EMISSION APPARATUS

XX Amendment and Response to Restriction  
Requirement

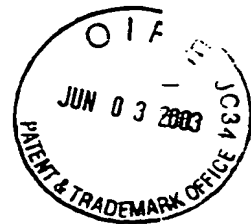
☒ Address Indication Form

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Other: Withdrawal of Erroneous Abandonment Notice or in  
the Alternative Petition to Revive w/attachments





**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

NAKAMURA

Serial No. 09/695,043

Filed: October 25, 2000

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Examiner: Mayekar, Koshor

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**APR 26 2004**

**OFFICE OF PETITIONS**

For: DECOMPOSITION APPARATUS OF ORGANIC COMPOUND, DECOMPOSITION  
METHOD THEREOF, EXCIMER UV LAMP AND EXCIMER EMISSION APPARATUS

\* \* \* \* \*

June 3, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**AMENDMENT AND RESPONSE TO RESTRICTION REQUIREMENT**

Responsive to the Official Action dated November 15, 2002, kindly enter the  
following amendment and remarks.

**IN THE CLAIMS**

The following claim set replaces all prior versions, and listings, of claims in the application:

1. (original) A decomposition apparatus for decomposing an organic compound fluid such as a gas of an organic compound, a liquid thereof, a gas containing an organic compound, and a liquid containing an organic compound, which comprises:  
an excimer lamp emitting UV light for decomposing said organic compound, and  
a decomposition container provided with an excimer lamp for decomposing said organic compound in said organic compound fluid.
2. (original) A decomposition apparatus as claimed in Claim 1, wherein two or more decomposition containers each having said excimer lamp are jointed for flowing said fluid in one container to the other container in order.
3. (original) A decomposition apparatus as claimed in Claim 1, wherein said container is equipped with a flow rate buffering material for slowing down a flow rate of said fluid.
4. (original) A decomposition apparatus as claimed in Claim 1, wherein said decomposition container is equipped with a contact part between said fluid and a catalyst gas for promoting decomposition of the organic compound.
5. (original) A decomposition apparatus as claimed in Claim 1, wherein an organic compound to be decomposed selected from fan, dioxin (polychlorinated dibenzo-para-dioxin), PCB (polychlorinated biphenyl), trichloroethylene, tetrachloroethylene, dichloromethane, tetrachloromethane, 1,2-dichloroethane, 1,1-dichloroethane, cis-1,2-dichloroethane, 1,1,1-trichloroethane, 1,3-dichloropropene and a mixture thereof.

6. (original) A decomposition apparatus as claimed in Claim 1, wherein said excimer lamp comprises:

- a discharging vessel made of a dielectric material with excellent permeability of UV light,

- an inner tube equipped on the inside of the discharging vessel, a protect tube equipped on the outside of the discharging vessel,

- an outer electrode equipped in the position between the protect tube and the discharging vessel,

- an inner electrode equipped on the inside of the inner tube,

- a filling gas filled up in said discharging vessel, and

- a power supply for applying a voltage between said outer electrode and said inner electrode.

7. (original) A decomposition apparatus as claimed in Claim 6, wherein said excimer lamp comprises:

- said power supply applying a high frequency voltage from 1 to 20 MHz to a metal container and the inner electrode.

8. (original) A decomposition apparatus as claimed in Claim 1, wherein a wave length of UV light is of 222nm or below.

9. (original) A decomposition apparatus of an organic compound fluid such as a gas of an organic compound, a liquid thereof, a gas containing an organic compound and a liquid containing an organic compound, which comprises:

- an excimer emission body equipped with an inner electrode,

- a metal container equipped to the outside of said excimer emission body for filling up at least one selected from a liquid of an organic compound and a liquid containing organic compound a power supply for applying a high frequency voltage



between the inner electrode and the metal container, and

a UV light irradiated from said excimer emission body to said liquid in said metal container allows to generate OH radical and O radical in the liquid, and

the radical cutting some bond of the organic compound so that the organic compound in the liquid is decomposed easily.

10. (original) A decomposition apparatus as claimed in Claim 9, wherein said excimer emission body comprises:

a discharging vessel made of a dielectric material with excellent permeability of UV light,

an inner tube equipped on the inside of said discharging vessel, an inner electrode equipped on the inside of said inner tube, and a filling gas filled up in said discharging vessel.

11. (original) A decomposition apparatus as claimed in Claim 9, wherein said excimer lamp comprises:

said power supply applying a high frequency voltage from 1 to 20 MHz to the metal container and the inner electrode.

12. (original) A decomposition apparatus as claimed in Claim 9, wherein an organic compound is selected from flon, dioxin (polychlorinated dibenzo-para-dioxin), PCB (polychlorinated biphenyl), trichloroethylene, tetrachloroethylene, dichloromethane, tetrachloromethane, 1,2-dichloroethane, 1,1-dichloroethane, cis-1,2-dichloroethane, 1,1,1-trichloroethane, 1,3-dichloropropene and a mixture thereof.

13. (original) A decomposition apparatus as claimed in Claim 9, wherein a wave length of UV light is of 222nm or below.

14. (currently amended) A decomposition method for decomposing ~~said an~~ organic compound fluid, ~~which is used in said a decomposition apparatus as claimed in Claim 1~~ that comprises an excimer lamp emitting UV light for decomposing said organic compound in said organic compound fluid, which method comprises the steps of:

flowing a organic compound fluid ~~which is~~ selected from a gas of an organic compound, a liquid thereof, a gas containing an organic compound and a liquid containing an organic compound during the emission of UV light which is irradiated from ~~an~~ said excimer lamp, and

decomposing the organic compound in said fluid during ~~its~~ said flowing step.

15. (original) A decomposition method as claimed in Claim 14, wherein said fluid flow slowly at a flow rate buffering material during the emission of UV light.

16. (original) A decomposition method as claimed in Claim 14, wherein said fluid flows slowly at a flow rate buffering material during the emission of UV light.

17. (original) A decomposition method as claimed in Claim 14, wherein an organic compound is selected from flon, dioxin (polychlorinated dibenzo-para-dioxin), PCB (polychlorinated biphenyl), trichloroethylene, tetrachloroethylene, dichloromethane, tetrachloromethane, 1,2-dichloroethane, 1,1-dichloroethane, cis-1,2-dichloroethane, 1,1,1-trichloroethane, 1,3-dichloropropene and a mixture thereof.

18. (original) A decomposition method as claimed in Claim 14, wherein a wave length of UV light is of 222nm or below.

Claims 19-24 (canceled).

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**REMARKS**

Reconsideration and allowance in view of the foregoing amendment and the following remarks are respectfully requested.

Claims 1-18 remain pending. Claim 14 has been amended above so as to be presented in independent form and so as to otherwise be in more proper U.S. claim format.

Responsive to the Examiner's Restriction Requirement, Applicant hereby provisionally elects Invention II, claims 14-16, drawn to a method for decomposing an organic compound fluid. This election is made with traverse. Applicant reserves the right to file a divisional application directed to the subject matter of the non-elected claims.

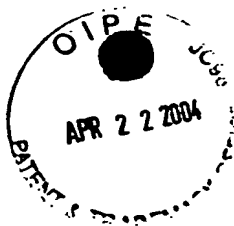
An early and favorable Action on the merits of claims 14-18 is solicited.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

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Serial No.: 09/132,215  
Inventor/s: NAKAMURA

C#/M#: 1767-72  
Atty: Michelle N. Lester  
Date: Dec. 10, 02

Title: DECOMPOSITION APPARATUS OF ORGANIC  
COMPOUND, DECOMPOSITION METHOD  
THEREOF, EXCIMER UV LAMP AND EXCIMER  
EMISSION APPARATUS

**XX Amendment**

\$ Fee (Check) - Pre-Bill  
\$ Fee (Check) - Non Pre-Bill

**\$0.00 Total Fee Enclosed**  
Other: **ADDRESS INDICATION FORM**

